

## **STATIONARY SOURCE PERMIT TO OPERATE**

This permit supersedes your permit dated September 2, 2003.

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

Southeastern Virginia Training Center  
2100 Stepping Stone Square  
Chesapeake, Virginia 23323  
**Registration No.: 60811**  
AFS Id. No.: 51-550-00086

is authorized to operate

a training center

located at

2100 Stepping Stone Square  
Chesapeake, Virginia 23323

in accordance with the Conditions of this permit.

Approved on **February DRAFT, 2007.**

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Francis L. Daniel

Permit consists of 7 pages.  
Permit Conditions 1 to 18.

## **INTRODUCTION**

1. This permit approval is based on the permit applications dated April 17, 1995, May 29, 2003, and October 19, 2006, including amendment and supplemental information dated January 25, 2001, April 16, 2003, May 16, 2003, and November 16, 2006. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.

Words or terms used in this permit shall have meanings as provided in 9 VAC 5-10-10 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

## **PROCESS REQUIREMENTS**

2. **Equipment List** - Equipment at this facility consists of the following:

<b>Equipment at the facility:</b>			
<b>Reference No.</b>	<b>Equipment Description</b>	<b>Rated Capacity</b>	<b>Federal Requirements</b>
B-1	Cleaver Brooks Model CB 100-125 distillate oil/natural gas-fired boiler; installed June 1973	5.23 mmBtu/hr	Not applicable
B-2	Cleaver Brooks Model CB 100-125 distillate oil/natural gas-fired boiler; installed June 1973	5.23 mmBtu/hr	Not applicable
B-3	Cleaver Brooks Model CB 100-100 distillate oil/natural gas-fired boiler; installed June 1973	4.185 mmBtu/hr	Not applicable
B-4	Cleaver Brooks Model CB 100-100 distillate oil/natural gas-fired boiler; installed June 1973	4.185 mmBtu/hr	Not applicable
G-1	Kohler Model 180 ROZ-81 Emergency Generator; No. 2 diesel oil-fired generator	267 BHP; 180 kW	Not applicable
G-2	Cummings Model QSX15-G9 nonroad emergency generator; No. 2 diesel oil-fired generator	752 BHP; 500 kW	Not applicable
T-1	No. 2 fuel AST	5,000 gallons	Not applicable
T-2	No. 2 fuel AST	5,000 gallons	Not applicable

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.  
(9 VAC 5-80-850)

### **OPERATING LIMITATIONS**

3. **Operating Hours** – Each generator (G-1 and G-2) shall not operate more than 500 hours per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.  
(9 VAC 5-80-850)
4. **Emergency Generator Use** – Each generator (G-1 and G-2) shall be used **ONLY** for providing power at this location during interruption of service from the normal power supplier, periodic maintenance testing, and operational training.  
(9 VAC 5-80-850)
5. **Fuel** - The approved fuels for the boilers (B-1, B-2, B-3, and B-4) are distillate oil and natural gas. The approved fuel for the generators is No. 2 diesel fuel. A change in the fuels may require a permit to modify and operate.  
(9 VAC 5-80-850)
6. **Fuel Throughput** - The boilers and generators shall consume no more than the following throughput of fuel per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

Emissions Unit	Fuel Type	Annual Throughput
B-1	Distillate oil	3,240 gallons/yr
	Natural gas	3,240,000 cubic feet/yr
B-2	Distillate oil	3,240 gallons/yr
	Natural gas	3,240,000 cubic feet/yr
B-3	Distillate oil	2,760 gallons/yr
	Natural gas	2,760,000 cubic feet/yr
B-5	Distillate oil	2,760 gallons/yr
	Natural gas	2,760,000 cubic feet/yr

(9 VAC 5-80-850)

7. **Fuel** - The distillate oil shall meet the specifications below:

DISTILLATE OIL which meets the ASTM D396 specification for numbers 1 or 2 fuel oil:  
Maximum sulfur content per shipment: 0.5%

(9 VAC 5-80-850)

8. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil/diesel fuel. Each fuel supplier certification shall include the following:
- The name of the fuel supplier;
  - The date on which the distillate oil/diesel fuel was received;
  - The quantity of distillate oil/diesel fuel delivered in the shipment; and,
  - A statement that the distillate oil/diesel fuel complies with the American Society for Testing and Materials specifications (ASTM D396) for numbers 1 or 2 fuel oil.

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition number 7. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.

(9 VAC 5-80-850)

### **EMISSION LIMITS**

9. **Facility-wide Emission Limits** - Total emissions from the facility shall not exceed the limits specified below:

Particulate Matter (PM)	0.6 ton/yr
PM-10	0.6 ton/yr
Sulfur Dioxide	0.9 ton/yr
Nitrogen Oxides (as NO <sub>2</sub> )	7.2 tons/yr
Carbon Monoxide	1.9 tons/yr
Volatile Organic Compounds	0.6 ton/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers 3, 4, 5, 6, 7, and 8.

(9 VAC 5-80-850)

10. **Visible Emission Limit** - Visible emissions from each boiler and generator shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9 VAC 5-80-850)

## **RECORDS**

11. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
- a. Annual hours of operation for each generator (G-1 and G-2), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
  - b. Annual throughput of fuel for each boiler (B-1, B-2, B-3, and B-4), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
  - c. All fuel supplier certifications.
  - d. Scheduled and unscheduled maintenance, and operator training.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-850 and 9 VAC 5-50-50)

## **GENERAL CONDITIONS**

12. **Right of Entry** - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:
- a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
  - b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
  - c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
  - d. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.

(9 VAC 5-170-130 and 9 VAC 5-80-850)

13. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Director, Tidewater Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone, or telegraph. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Director, Tidewater Regional Office in writing.

(9 VAC 5-20-180 C and 9 VAC 5-80-850)

14. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.

(9 VAC 5-20-180 I and 9 VAC 5-80-850)

15. **Maintenance/Operating Procedures** – At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-50-20 E and 9 VAC 5-80-850)

16. **Permit Suspension/Revocation** - This permit may be revoked if the permittee:
- a. Knowingly makes material misstatements in the permit application or any amendments to it;
  - b. Fails to comply with the terms or conditions of this permit;
  - c. Fails to comply with any emission standards applicable to a permitted emissions unit;
  - d. Causes emissions from this facility which result in violations of, or interferes with the attainment and maintenance of, any ambient air quality standard;
  - e. Fails to operate this facility in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time that an application for this permit is submitted; or
  - f. Fails to comply with the applicable provisions of Articles 6, 8 and 9 of 9 VAC 5 Chapter 80.
- (9 VAC 5-80-1010)
17. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Director, Tidewater Regional Office of the change of ownership within 30 days of the transfer.
- (9 VAC 5-80-940)
18. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
- (9 VAC 5-80-860 D)

